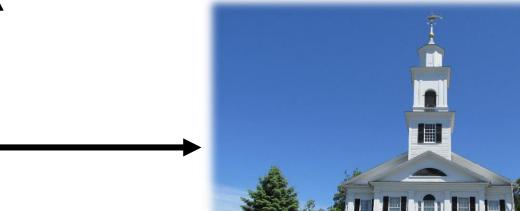
What are "Village Center Design Principles"?











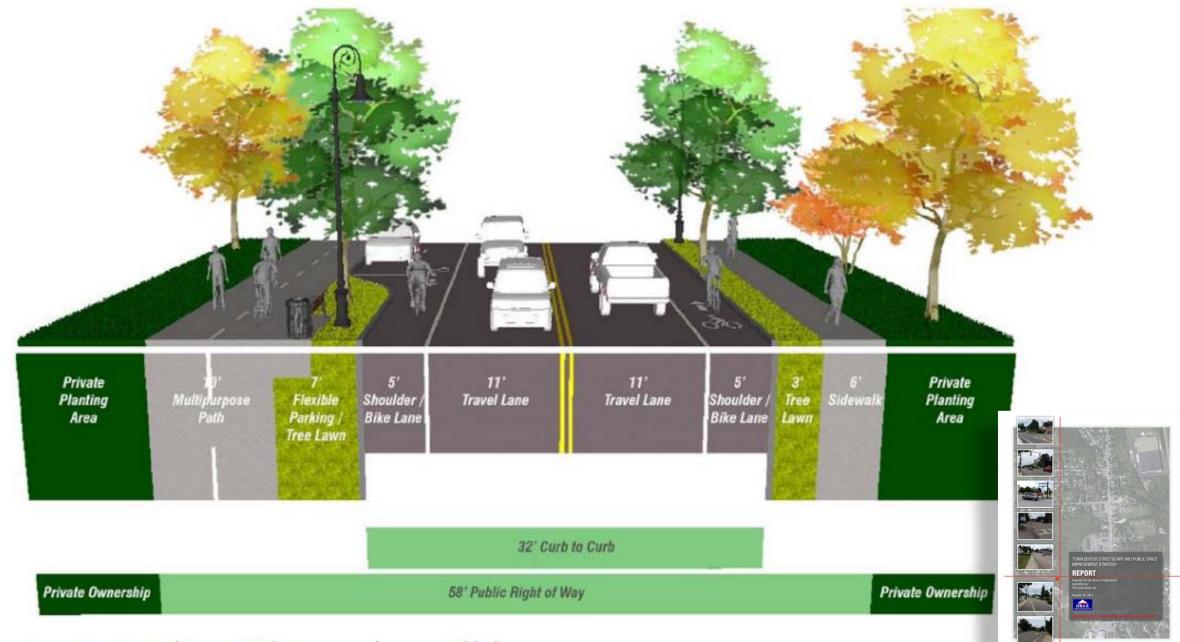


Figure 15 - Proposed Section: Multi-purpose and recreational linkage

FIGURE 16.2.1 - STREET TYPES - COMMERCIAL/CIVIC STREET TYPE

Cross Section/Perspective View

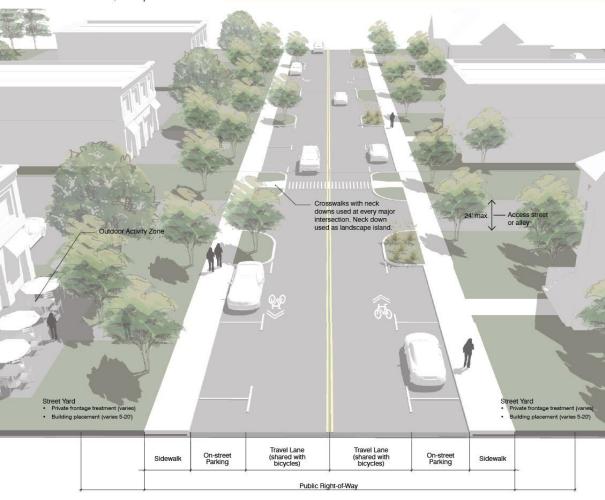
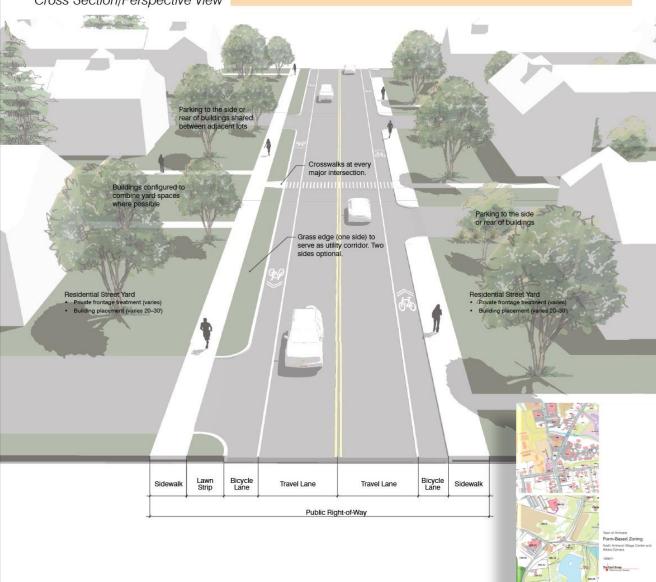


FIGURE 16.2.1 - STREET TYPES - VILLAGE RESIDENTIAL STREET TYPE

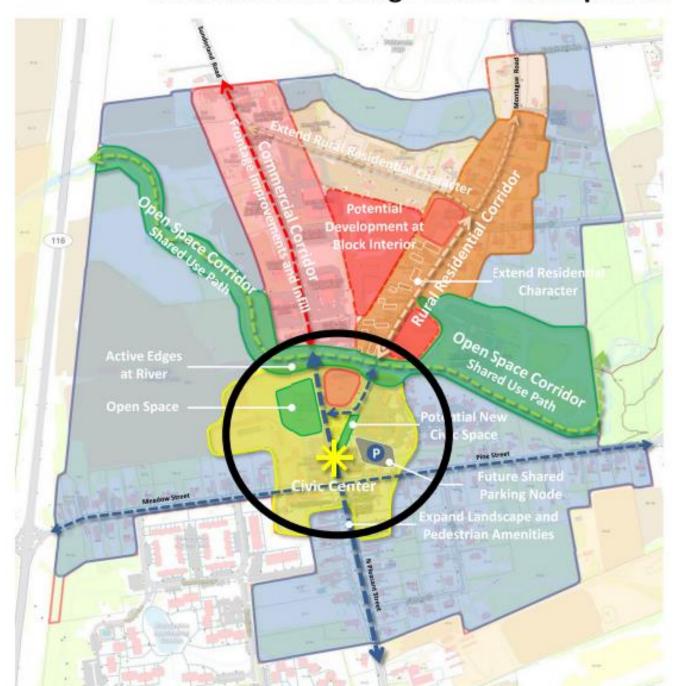
Cross Section/Perspective View

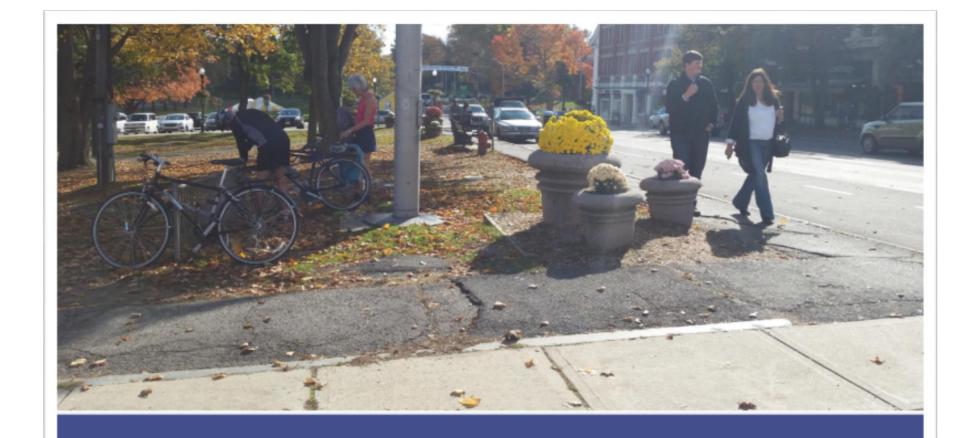


Why look at intersections?

- 2010 Master Plan
 - Update traffic controls
 - Adjust circulation patterns
 - Apply traffic calming measures
 - Improve road signs
 - Adopt "complete streets" policy
- 2011 Cecil group charrette
- 2015 Transportation Plan

North Amherst Village Center Concept Plan





AMHERST TRANSPORTATION PLAN

Intersection Redesign

Intersection redesigns are intended to provide greater parity to all users of the street network. Intersection redesigns can be used to make pedestrian crossings safer, to make left turns on bike more obvious to other users, and to better situate bus stops in reference to traffic.

Amherst Today

Amherst's intersections are generally designed primarily with cars in mind. While pedestrian crossings and bicycle infrastructure have been installed throughout the town, for the most part these amenities have been tailored to fit the auto-oriented streets.

Needs

Throughout Amherst pedestrian crossings do not take the shortest or most convenient route across a roadway, requiring pedestrians to deviate from their desire line. Meanwhile, signals are often timed to clear a queue, resulting in long queues on all approaches and long pedestrian delays.

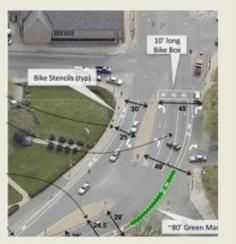
Opportunities

Simple signal timing changes and intersection geometry changes can make operations more efficient and safer for all modes. Amherst's success with roundabouts is a demonstration of this potential.

Traffic roundabout in Glens Falls, NY

BEST PRACTICE - Northampton, MA

In response to the deaths of a student and a local resident attempting to cross State Routes 9 and 10,
Northampton sought a means to redesign the large intersection of Main, Elm,
State, and New South Streets by the Academy of Music. The redesign incorporates a reduced cross-section, raised slip lanes, and reduced crosswalk distances while reducing vehicle and pedestrian delays.



State Route 9, Northampton MA

Rendering: Nelson\Nygaard

Next Steps

- Identify intersections in Amherst that are difficult for users to navigate, no matter the mode.
- Establish priorities for intersection redesign.
- Coordinate intersection redesigns with other projects in the town.

Walking strategies

Pedestrian enhancement program
Sidewalk gap program
Walk to school program
Traffic calming program
Permit standards for walkability
Crosswalk specifications

Bicycle strategies

Bike network plan
Bicycle infrastructure accommodations at intersections
Bike education program
Bike share
Trail and conservation area connections
Bike rack standards
Bike repair stations
Bike lane maintenance protocol

Transit strategies

Bike racks at transit stations Transit stop enhancements Real time transit information Local transit plan Transit signal priority Fixed guide way transit plan

Driving strategies
Establish signal timing standards
Intersection redesign
Enhanced pavement management program
Revised parking standards
Car share expansion
Vanpool/carpool program
Unbundled parking
Demand-Based pricing
Event management program
Remote parking incentive
Parking benefit district

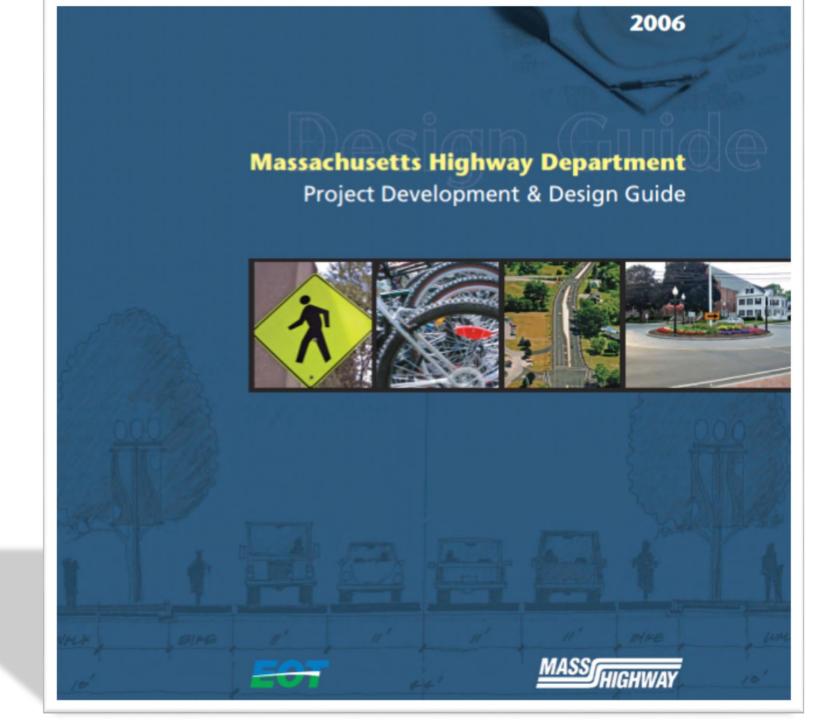
Remote paring walk connections and wayfinding Shared parking district

Parking utilization data program

Commercial loading zone regulations

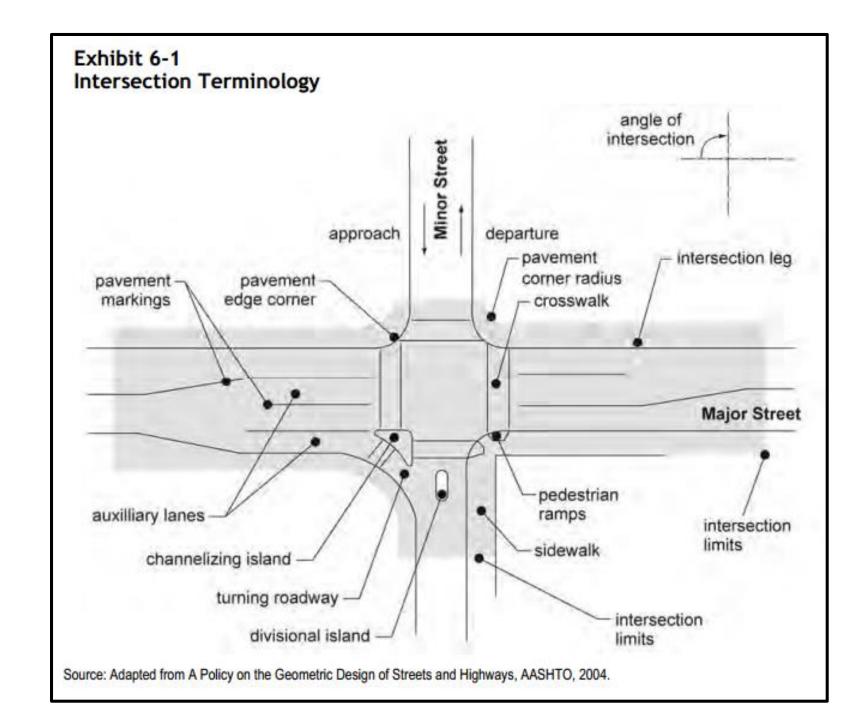
Automobiles

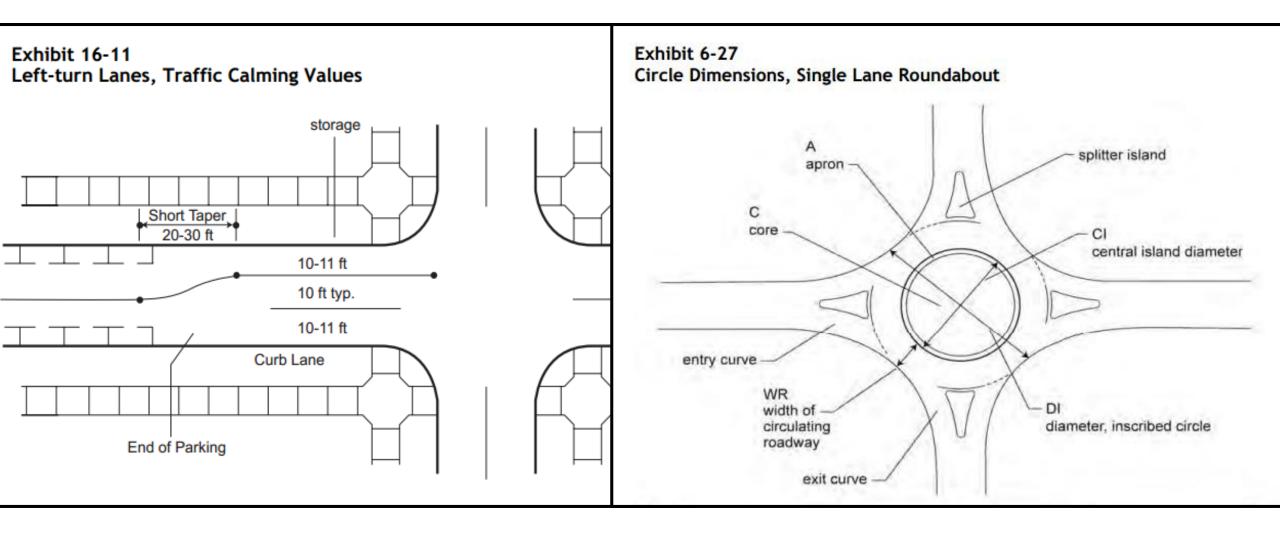
- Intersection users:
 - Pedestrians
 - Bicyclists
 - Motor vehicles
 - Transit

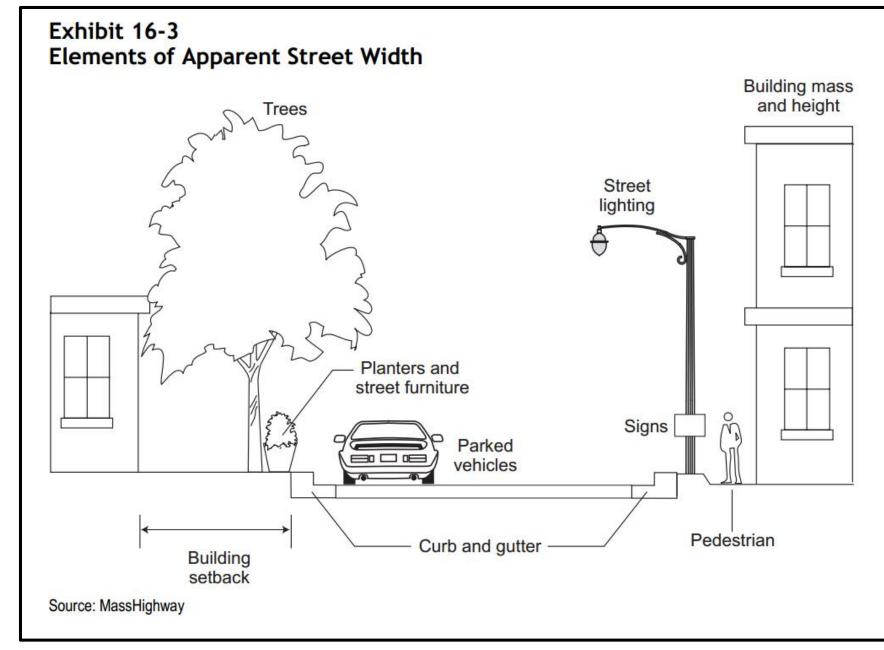


Traffic calming

Physical road design elements intended to reduce vehicle speeds and improve driver attentiveness







- -Narrow lanes
- -Raised curbs
- -Street furniture
- -Street lighting
- -Building placement
- -On-street parking
- -Short medians
- -Roundabout
- -Raised crosswalks
- -Textured pavement





Cambridge: Before



Cambridge: After



- -Connectivity
- -Lighting
- -Amenities
- -Access management
- -Parking
- -Landscaping







Amherst Town Center Streetscape Design Guidelines Manual

Prepared for:

Amherst Planning Department

4 Boltwood Avenue, Amherst, MA 01002

Robert Mitchell, Planning Director Constance Kruger, Senior Planner Jonathan Tucker, Senior Planner

Prepared by:

The Berkshire Design Group, Inc.

4 Allen Place, Northampton, MA 01060

PAVING ENHANCEMENTS





Dual Sharrow Infrastructure



Painted Bike Lane



Stamped Crosswalk



Stamped Crosswalk



Painted Areas

STREETSCAPE FURNISHING



Decorative Metal Bench



Decorative Wooden Bench



Modular Benches



Artistic Bike Rack



Standard Bike Rack



Retrofitted Bike Rack



Wayfinding Signage



OPEN SPACE ENHANCEMENTS



Open Space Enhancements



Open Space Enhancements



Community Signage



Landscape Enhancements at Crosswalk



Private Parking Buffer



Private Parking Buffer

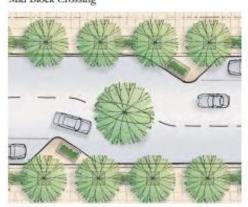
TRAFFIC CALMING



Landscaped Curb Extensions



Mid Block Crossing



Chicane



Painted Intersection



Hardscaped Interesection

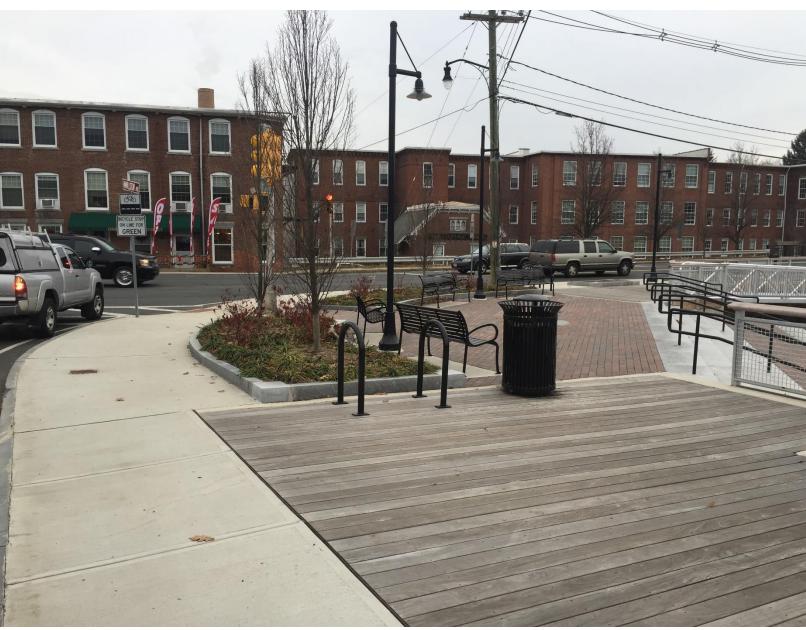


Community Inspired Intersection



Streetscape example: Easthampton





The Built Environment

- -Location
- -Architecture
- -Access management
- -Zoning
- -Parking





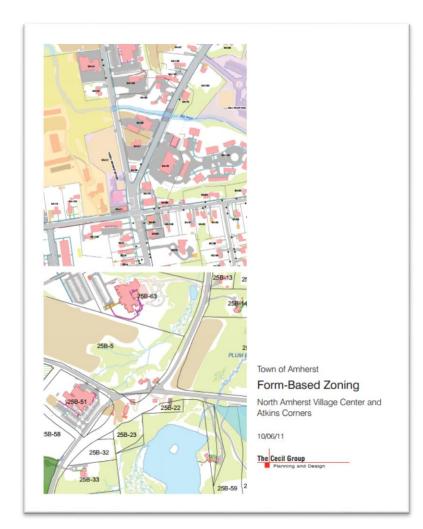


FIGURE 16.5.1 - PUBLIC AND PRIVATE OPEN SPACE TYPES

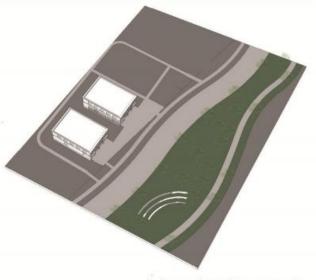
Park |

A natural preserve available for unstructured recreation. A park may be independent of surrounding building frontages, its landscape shall consist of paths and trails, meadows, woodland and open shelters, all naturalistically disposed. Parks in the FBD are likely to be lineal, following the natural corridor along water courses. The linear park should connect to surrounding neighborhoods and civic centers.

Character Examples







The illustrations of Figure 16.5.1 represent one possible solution, exact conditions may vary; proposals shall meet the intent shown.

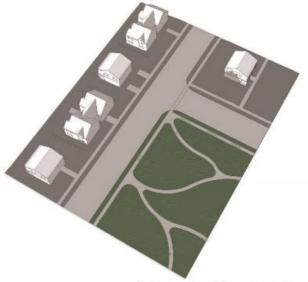
Green

An open space, available for unstructured recreation. A green or common may be spatially defined by landscaping rather than building frontages. Its landscape shall consist of lawn and trees, naturalistically disposed.

Character Examples:







The illustrations of Figure 16.5.1 represent one possible solution, exact conditions may vary; proposals shall meet the intent shown.

Proposed Zoning District and FBC Regulation Amendments

10/06/11

Page 30

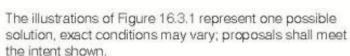
FIGURE 16.3.1 - BUILDING AND SITE TYPES

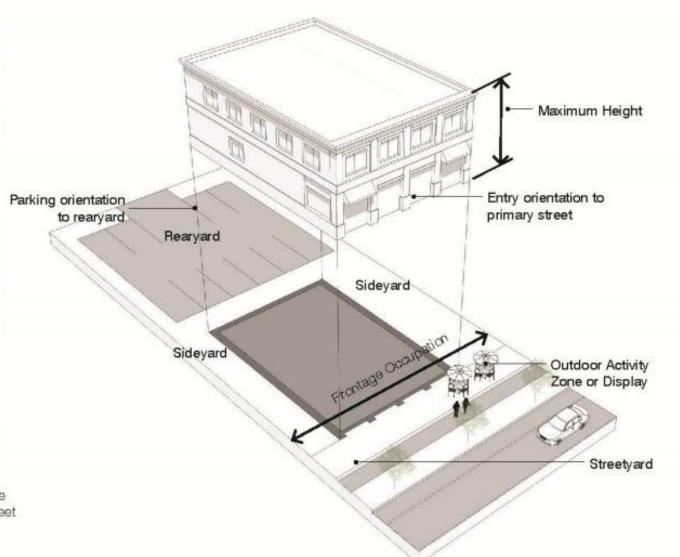
Mixed Use Building and Site Type

Character Examples:

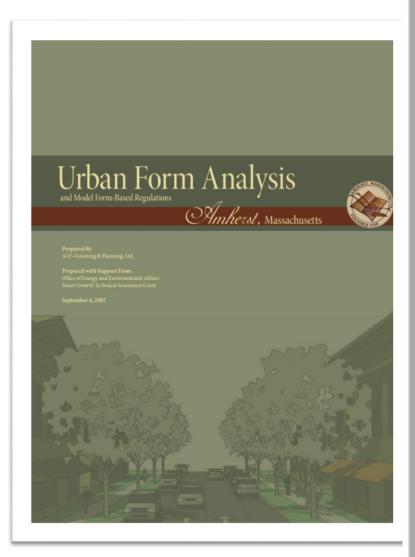




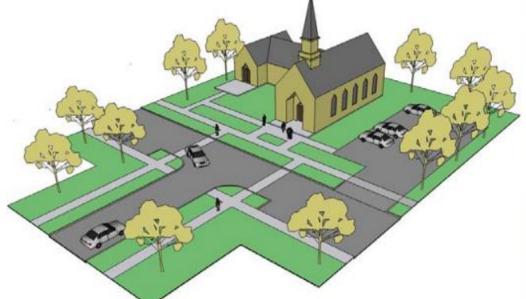








Civic Space Lot

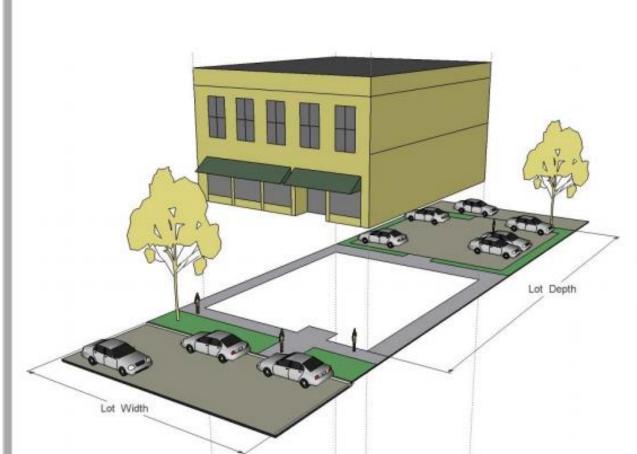


Character Examples





Character Examples

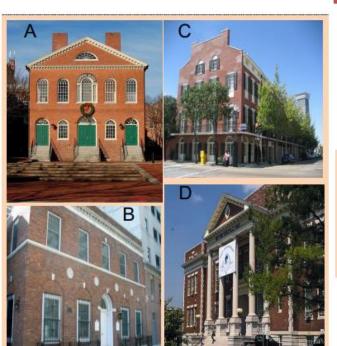


Village Blockfront Lot (VBF)





ARCHITECTURAL PRINCIPLES



Belchertown strongly encourages commercial development that follows traditional New England standards and should be designed to human scale

Alterations to existing structures should be proportioned to match the form, colors, and details of the original structure



EXAMPLES

- **New England Colonial Revival**
- Georgian Revival
- Federal Revival
- Classic Revival
- E Victorian
- Cape Cod Vernacular

ENCOURAGED

STREET CORNERS



Buildings located on corners are particularly important because they help define the character of two streets. These high-visibility locations should be emphasized by quality architecture and site development.

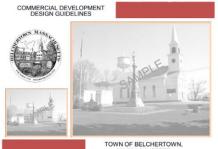
EXAMPLES

- Main entrance located on major street
- Dynamic focal points in the streetscape



ENCOURAGED

13



TOWN OF BELCHERTOWN, MASSACHUSETTS